Volume04 Issue06, June-2018, pg. 01-04

June

E-ISSN: 2454-4191

P-ISSN: 2455-0779

# SMILES WITH WIT: A CASE REPORT OF ORTHODONTIC TREATMENT USING THE FIXED PARTIAL APPLIANCE

#### Palash Pathak

Post Graduate Student, Dept Of Pedodontics & Preventive Dentistry, Dr. R. Ahmed Dental College & Hospital, Kolkata, West Bengal, India

Abstract: This case report presents a unique and witty approach to orthodontic treatment using the fixed partial appliance. The fixed partial appliance, also known as the fixed orthodontic retainer, is typically used for post-treatment retention to maintain tooth alignment. However, in this case, the fixed partial appliance was creatively modified to address specific orthodontic challenges during active treatment. The patient, a 19-year-old female with crowding and misalignment, underwent orthodontic treatment with this innovative appliance. The fixed partial appliance proved to be a versatile tool, providing precise control over tooth movement and achieving remarkable results. The witty application of this appliance allowed for improved aesthetics, reduced treatment time, and increased patient comfort. This case report demonstrates the effectiveness of thinking outside the box in orthodontics and showcases the potential of the fixed partial appliance as a versatile treatment tool.

Keywords: Orthodontic treatment, fixed partial appliance, fixed orthodontic retainer, tooth alignment, crowding, misalignment, aesthetic orthodontics, innovative appliance, treatment efficiency, case report.

#### INTRODUCTION

Published Date: - 01-06-2018

Orthodontic treatment has long been associated with traditional braces, clear aligners, and other well-established appliances. However, in recent years, orthodontists have begun to explore innovative and creative approaches to achieve optimal results for their patients. This case report introduces a witty and unconventional application of the fixed partial appliance, typically used for post-treatment retention, as a dynamic tool during active orthodontic treatment. By thinking outside the box, the fixed partial appliance was modified and employed to address specific challenges in tooth alignment and achieve remarkable outcomes. This report aims to showcase the versatility of this appliance and the potential benefits of integrating wit and creativity in orthodontic treatment.

# **METHOD**

Patient Evaluation:

Volume04 Issue06, June-2018, pg. 01-04

June

E-ISSN: 2454-4191

P-ISSN: 2455-0779

**Published Date: -** 01-06-2018

A 19-year-old female patient presented with concerns of crowding and misalignment in her dentition. A thorough clinical examination, radiographic analysis, and cephalometric evaluation were performed to assess her orthodontic condition.

#### Treatment Planning:

A comprehensive treatment plan was devised, taking into consideration the patient's specific dental needs and aesthetic preferences. The potential application of the fixed partial appliance as a dynamic orthodontic tool was considered as part of the innovative approach.

# Modified Fixed Partial Appliance:

The conventional fixed partial appliance, typically used for post-treatment retention, was modified by the orthodontist to incorporate specific features that allowed for controlled tooth movement. By strategically adjusting the appliance, the orthodontist could achieve desired tooth alignment and address crowding and misalignment issues.

#### Orthodontic Treatment:

The modified fixed partial appliance was bonded to the patient's teeth, and the active orthodontic treatment commenced. Regular adjustments were made to the appliance, providing precise control over tooth movement and progress evaluation.

#### Monitoring and Progress Evaluation:

Throughout the treatment duration, the patient's progress was closely monitored through regular clinical examinations, dental imaging, and patient feedback. The efficacy of the witty application of the fixed partial appliance was continuously assessed.

## **Treatment Outcome:**

Upon completion of the orthodontic treatment, the final results were evaluated in terms of tooth alignment, occlusion, aesthetics, and patient satisfaction. Photographs and dental casts were taken to document the treatment outcome.

The application of the fixed partial appliance in this unconventional and witty manner enabled the orthodontist to achieve significant improvements in tooth alignment and aesthetics while ensuring patient comfort and treatment efficiency. This innovative approach demonstrates the potential benefits of thinking creatively in orthodontic treatment, expanding the scope of appliance usage beyond traditional applications. The following sections present the detailed results and discussion of this unique case report, highlighting the effectiveness of the witty hand in orthodontics.

Volume04 Issue06, June-2018, pg. 01-04

June

E-ISSN: 2454-4191 P-ISSN: 2455-0779

**Published Date: -** 01-06-2018

# **RESULTS**

The application of the fixed partial appliance as a dynamic orthodontic tool in this case report yielded remarkable results. The modified appliance allowed for precise control over tooth movement, effectively addressing the patient's crowding and misalignment issues. Throughout the treatment duration, the patient showed significant improvements in tooth alignment and occlusion. Moreover, the witty application of the fixed partial appliance provided an aesthetically pleasing outcome, enhancing the patient's smile and overall facial harmony. The treatment process was efficient, with reduced treatment time compared to traditional orthodontic approaches.

## **DISCUSSION**

The innovative use of the fixed partial appliance as a dynamic orthodontic tool showcases the potential for creative thinking in orthodontic treatment. Traditionally, fixed partial appliances are employed for post-treatment retention, providing stability to the teeth after active orthodontic treatment. However, in this case, by modifying the appliance and utilizing it during the active treatment phase, the orthodontist demonstrated how unconventional approaches can achieve exceptional outcomes.

The versatility of the fixed partial appliance allowed for controlled tooth movement, making it an effective tool in addressing the patient's specific orthodontic challenges. The precise adjustments made to the appliance enabled the orthodontist to achieve desired tooth alignment, while the fixed nature of the appliance provided continuous and consistent force for efficient tooth movement.

The witty application of the fixed partial appliance not only improved the functional aspects of the patient's dentition but also enhanced her aesthetics and self-confidence. The patient expressed satisfaction with the treatment process and outcome, highlighting the positive impact of this creative approach on her overall well-being.

# **CONCLUSION**

The case report "Smiles with Wit" illustrates the effectiveness of an unconventional and witty application of the fixed partial appliance in orthodontic treatment. By creatively modifying the appliance and using it as a dynamic orthodontic tool, the orthodontist achieved exceptional results in tooth alignment, occlusion, and aesthetics. The versatile nature of the fixed partial appliance allowed for precise control over tooth movement, demonstrating its potential beyond the traditional role of post-treatment retention.

This case report emphasizes the value of thinking outside the box in orthodontics and encourages orthodontists to explore innovative approaches to achieve optimal outcomes for their patients. The integration of wit and creativity in orthodontic treatment can lead to more efficient treatment processes, reduced treatment time, and enhanced patient satisfaction.

Volume04 Issue06, June-2018, pg. 01-04

June

E-ISSN: 2454-4191

P-ISSN: 2455-0779

While this report showcases the successful application of the fixed partial appliance in a specific case, further research and exploration of creative and unconventional approaches in orthodontics are warranted. By continuously pushing the boundaries of orthodontic techniques and appliance usage, orthodontists can continue to enhance the quality of care and provide smiles that inspire confidence and joy in their patients.

# **REFERENCES**

**Published Date: - 01-06-2018** 

- **1.** McKnight J: The responsibility of the pedodontist in diagnosis and correction of minor irregularities of occlusion. ] Dent Child 32:57-61, 1965.
- 2. Sim JM: Minor Tooth Movement in Children, 2nd ed. St. Louis; CV Mosby Co, 1977 p 246.
- 3. Lee BD: Correction of crossbite. Dent Clin North Am 22:647-68, 1978.
- **4.** Profitt. William R, Fields W Henry, Sarver David M, Contemporary Orthodontics, 5th Edition, 391-394.
- **5.** McEvoy SA: Rapid correction of a simple one-tooth anterior crossbite due to an overretained primary incisor: clinical report. Pediatr Dent 5:280-82, 1983.
- **6.** Purcell PD: The crossbite. J Michigan Dent Assoc 66:69-73, 1984.
- **7.** Valentine F, Howitt JW: Implications of early anterior crossbite correction. J Dent Child 37:420-27, 1970.
- 8. Asher et al, Simple fixed appliance crossbite correction, PEDIATRIC DENTISTRY. March 1986, Vol. 8 (1).
- **9.** Graber TM: Orthodontics: Principles and Practice, 3rd ed. Philadelphia; WB Saunders Co, 1972 pp 840-42.
- **10.** Benham NR: Treatment of simple anterior crossbite using a fixed appliance technique. J Dent Child 42:487-88. 1975.